

# Maximum Permissible Exposure Evaluation

## FCC ID: 2AAH9-3700

### 1. Client Information

<b>Applicant</b>	:	Navori Inc.
<b>Address</b>	:	1000 rue Sherbrooke st W, Suite 710, Montreal, QC, Canada H3A 3G4
<b>Manufacturer</b>	:	Shenzhen MicoRose Technology Co., Ltd.
<b>Address</b>	:	8B2A, Daqing Building, southeast of the intersection of Shennan Road and Guangshen Expressway, Futian District, Shenzhen, China

### 2. General Description of EUT

<b>EUT Name</b>	:	StiX
<b>Models No.</b>	:	3700
<b>Brand Name</b>	:	Navori
<b>Product Description</b>	Operation Frequency:	Bluetooth V4.0(BT): 2402~2480 MHz Bluetooth 4.0(BLE): 2402MHz~2480MHz 802.11b/g/n(HT20): 2412MHz~2462MHz U-NII-1: 5180MHz~5240MHz U-NII-3: 5745MHz~5825MHz
	Number of Channel:	Bluetooth: 79 Channels Bluetooth (BLE) : 40 channels 802.11b/g/n(HT20):11 channels U-NII-1:4 channels U-NII-3:6 channels
	RF Output Power:	GFSK:5.089dBm π/4-DQPSK:5.16dBm 8DPSK:5.831dBm GFSK (BLE) :5.615dBm 802.11b: 15.844dBm 802.11g: 14.627dBm 802.11n (HT20): 13.571dBm 802.11a: 7.56dBm 802.11a: 4.194dBm
	Antenna Gain:	2.0dBi RP-SMA Antenna
<b>Power Rating</b>	:	For Adapter: Input: 100-240V~ Output:5V <sup>⎓</sup> , 2.5A
<b>Software Version</b>	:	android 9.0
<b>Hardware Version</b>	:	V1
<b>Connecting I/O Port(S)</b>	:	Please refer to the User's Manual
<b>Remark</b>	:	the MPE report used the EUT(TBBJ-20210325-18_01-1#).

**MPE Calculations for WIFI**

**1. Antenna Gain:**

Dipole Antenna:2.0dBi.

**2. EUT Operation Condition:**

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

**3. Exposure Evaluation:**

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S=(PG)/4\pi R^2$$

Where

**S:** power density

**P:** power input to the antenna

**G:** power gain of the antenna in the direction of interest relative to an isotropic radiator.

**R:** distance to the center of radiation of the antenna

**4. Test Result:**

Worst Maximum MPE Result								
Mode	N <sub>TX</sub>	Freq. (MHz)	Conducted Power(max) (dBm)	Turn-up Power (dB)	Max tune up power (dBm) [P]	ANT Gain (dBi) [G]	Distance (cm) [R]	Power Density (mW/ cm <sup>2</sup> ) [S]
802.11b	1	2412	15.844	15±1	16	2.0	20	0.0126
		2437	15.7	15±1	16	2.0	20	0.0126
		2462	14.966	14±1	15	2.0	20	0.0100
802.11g	1	2412	14.627	14±1	15	2.0	20	0.0100
		2437	14.366	14±1	15	2.0	20	0.0100
		2462	13.976	13±1	14	2.0	20	0.0079
802.11n(HT20)	1	2412	13.523	13±1	14	2.0	20	0.0079
		2437	13.571	13±1	14	2.0	20	0.0079
		2462	13.128	13±1	14	2.0	20	0.0079
BT(GFSK)	1	2402	4.653	4±1	5	2.0	20	0.0010
		2441	5.089	5±1	6	2.0	20	0.0013
		2480	4.514	4±1	5	2.0	20	0.0010

BT( $\pi$ /4-DQPSK)	1	2402	4.705	4±1	5	2.0	20	0.0010
		2441	5.16	5±1	6	2.0	20	0.0013
		2480	4.148	4±1	5	2.0	20	0.0010
BT(8DPSK)	1	2402	4.296	4±1	5	2.0	20	0.0013
		2441	5.831	5±1	6	2.0	20	0.0013
		2480	5.166	5±1	6	2.0	20	0.0013
BLE(GFSK)	1	2402	5.615	5±1	6	2.0	20	0.0013
		2442	4.908	4±1	5	2.0	20	0.0010
		2480	4.287	4±1	5	2.0	20	0.0010
802.11a (U-NII-1)	1	5180	7.56	7±1	8	2.0	20	0.0020
	1	5200	7.311	7±1	8	2.0	20	0.0020
	1	5200	7.074	7±1	8	2.0	20	0.0020
802.11a (U-NII-3)	1	5745	4.194	4±1	5	2.0	20	0.0013
	1	5785	2.402	2±1	3	2.0	20	0.0006
	1	5825	3.251	3±1	4	2.0	20	0.0008

**Note:**

(1)  $N_{TX}$ = Number of Transmit Antennas

(2) RF Output power specifies that Maximum Conducted Peak Output Power.

**5. Conclusion:**

As specified in Table 1B of 47 CFR 1.1310- Limits for Maximum Permissible Exposure (MPE),

**Limits for General Population/ Uncontrolled Exposure**

Frequency Range (MHz)	Power density (mW/ cm <sup>2</sup> )
300-1,500	F/1500
1,500-100,000	1.0

For 2.4WIFI:2412~2462 MHz

MPE limit S: 1mW/ cm<sup>2</sup>

The MPE is calculated as **0.0070 mW / cm<sup>2</sup> < limit 1mW / cm<sup>2</sup>**. So, RF exposure limit warning or SAR test are not required.

The EUT will only be used with a separation of 20cm or greater between the antenna and nearby persons and can therefore be considered a mobile transmitter per 47 CFR2.1091 (b).

The RF Exposure Information page from the manual is included here for reference.

**Note**

For a more detailed features description, please refer to the RF Test Report.

**6. Conclusion:**

The measurement results comply with the FCC Limit per 47 CFR 2.1091 for the uncontrolled RF Exposure of mobile device.

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